

A Nuclear Services and Waste Management Company

PUBLIC MEETING FOR CLASS 3 PERMIT MODIFICATION: EVAPORATION SYSTEM









Class 3 Permit Modification to Install Evaporation System

- PermaFix location
- Business/operations
- Current permit
- Need for permit modification
- Process Flow Diagram
- Photos









Perma-Fix Northwest Facility

- Acquired from PECOS in June 2007
- 42 acres located on Battelle Blvd
- 53 Employees
- RCRA Permit issued by WDOE and EPA (EPA ID WAR000010355)
- 2 Radioactive Material Licenses issued by WDOH
- Air Permits from WDOH and BCAA









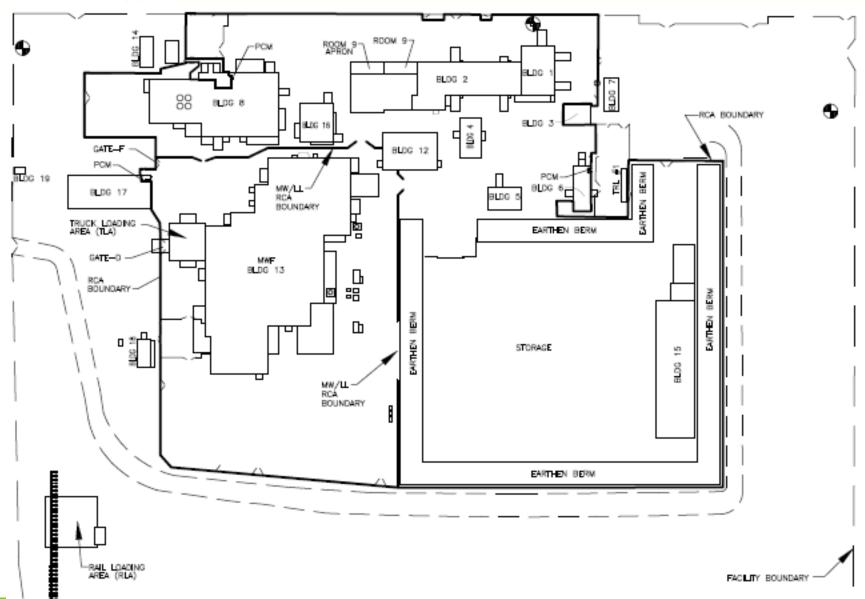








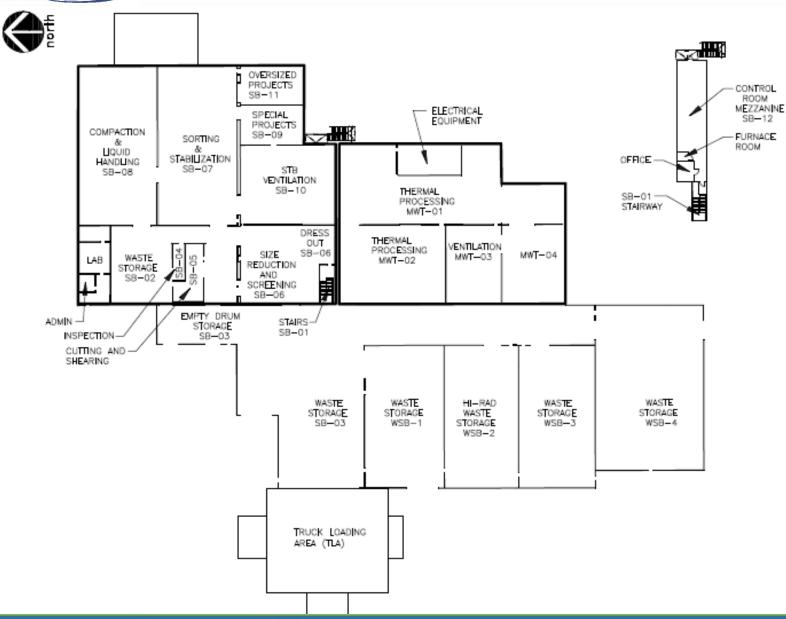




















Current Status RCRA/TSCA Permit

- RCRA Permit issued: May 28, 1999
- Permit expiration: July 7, 2009
- Renewal application submitted: April 2009
- Currently operating under old permit
- PMR submitted on Aug. 29, 2014
- Public comment period is Aug. 31-Oct. 31
- Notice mailed to Interested Parties









Need for Permit Modification

- Business needs to expand treatment capabilities for mixed wastes
- Install a new process to evaporate water contaminated with RCRA constituents (mixed wastes)
- Further processes will be used to stabilize residue from the evaporators









Details of Permit Modification

- Addition of Evaporation System (TP-16)
 - Increase tank storage capacity
 - Install evaporators
 - Ability to accept mixed wastes in tanker trucks
- Removal of Gasification/Vitrification System
- Clarify related language to align with current practices
- Correct typos









Process Flow Diagram

Incoming Waste Liquid and minimal amounts of solids in tanker or containers

Mixed Waste Facility

- Evaporation system proposed to evaporate mixed waste water with less than 10% VOC's
- EPA Waste Codes: D004, D005, D007-D011, F001-F005, F039, and U210
- Storage tanks and processed in evaporators



Evaporation Stabilization



Storage Disposal

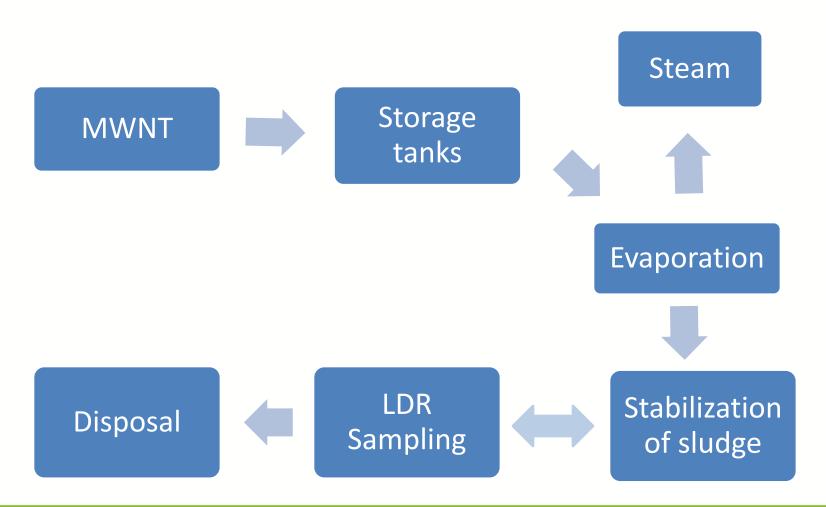








Process Flow Detailed



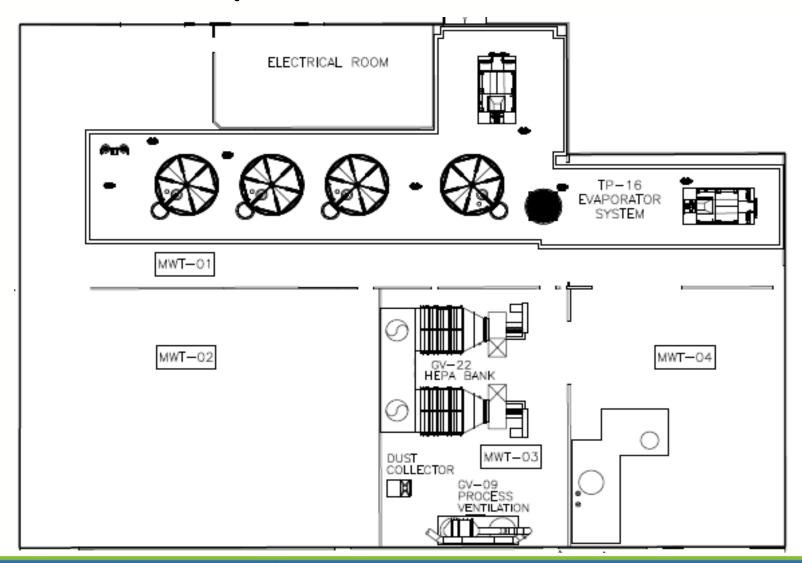








Evaporator Floor Plan











Evaporator Unit Info.

- 1. Two units with capacity of 260 gallons per hour each.
- 2. Unit dimensions: 13' x 7' x 10'
- 3. Stainless steel
- 4. Natural gas
- 5. Approx. volume reduction 95%











Air Emissions

Estimated Volatile Organic Compounds (VOC) from Evaporation System Based on Hanford Waste:

- Potential emissions 4.94 tons VOC per year
- Actual emissions 0.76 tons VOC per year

(BCAA): Class 1 Source Facility

- Approx. 80% of being Class 2 Source (>8tpy)
- Approx. 95% of Title V Operation Limits (>100tpy)









Next steps

- Submit Modification to WDOH for Air Permit
- Submit Source Review (NOC) to BCAA
- Submit Radioactive Material License amendment to include the units
- Response to WDOE Notice of Deficiencies (NOD)









Perma-Fix Northwest Contact Information

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Permit Information

- Copy of the permit modification is available at:
 - Richland Public Library
 - Washington Dept. of Ecology
 - http://www.ecy.wa.gov/programs/nwp/permitting/om w/permafix/mod/8-31-2014/index.html









WDOE Contact

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Questions





